



Site Characterization Evaluation - Process

- Focus of the review: ensure that the geologic description of the site is based data that represent the entire AoR (and model domain) or identify uncertainties/data gaps/needed confirmation to address in pre-operational testing.
- Site is generally well characterized based on well logs to the north, east, and south; limited core data (1 well); and 2D seismic data for areas to the west.
- Two stage approach: geologic evaluation of the information provided and a comprehensive review to determine site-suitability. This provides a foundation for the AoR modeling evaluation.



Evaluation of the CES-Mendota Site

Geologic Evaluation:

- Regional geology and stratigraphy
- Faults
- Lowermost USDW
- Injection zone geochemistry
- Injection zone mineral composition
- Injection and confining zone geomechanics
- Mineralogy, petrology, and lithology of the injection and confining zones
- Seismic history and seismic risk

Comprehensive Evaluation:

- Facies changes in the injection or confining zones
- Structure of injection and confining zones
- CO₂ stream compatibility with subsurface fluids and minerals
- Confining zone integrity

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